

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

# PCT

To:

see form PCT/ISA/220

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing  
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference  
see form PCT/ISA/220

**FOR FURTHER ACTION**  
See paragraph 2 below

International application No.  
PCT/GB2005/000407

International filing date (day/month/year)  
04.02.2005

Priority date (day/month/year)  
06.02.2004

International Patent Classification (IPC) or both national classification and IPC  
B05B11/00

Applicant  
GLAXO GROUP LIMITED

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2  
NL-2280 HV Rijswijk - Pays Bas  
Tel. +31 70 340 - 2040 Tx: 31 651 epo nl  
Fax: +31 70 340 - 3016

Authorized Officer

Barré, V

Telephone No. +31 70 340-2987



---

**Box No. I Basis of the opinion**

---

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
  - ☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material:
    - ☐ a sequence listing
    - ☐ table(s) related to the sequence listing
  - b. format of material:
    - ☐ in written format
    - ☐ in computer readable form
  - c. time of filing/furnishing:
    - ☐ contained in the international application as filed.
    - ☐ filed together with the international application in computer readable form.
    - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/GB2005/000407

---

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

---

1. Statement

Novelty (N)	Yes: Claims	55 58-62 72-77 88-92 107-110
	No: Claims	1-54,56,57,63-71,78-87,93-106
Inventive step (IS)	Yes: Claims	
	No: Claims	1-110
Industrial applicability (IA)	Yes: Claims	1-110
	No: Claims	

2. Citations and explanations

**see separate sheet**

**Re Item V.**

- 1 Reference is made to the following document:

D1: US-A-5 024 355 (JOUILLAT ET AL) 18 June 1991 (1991-06-18)  
D2: DE 196 10 456 A1 (ING. ERICH PFEIFFER GMBH, 78315 RADOLFZELL, DE)  
18 September 1997 (1997-09-18)  
D3: WO 02/094708 A (COHEN, BEN, Z; SCHULTZ, ROBERT, S) 28 November  
2002 (2002-11-28)

2 INDEPENDENT CLAIM 1

- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.  
Document D1 discloses (the references in parentheses applying to this document):  
A fluid dispenser for dispensing a metered volume of a fluid product having:  
(a) a storage chamber (1, 1') for storing the fluid product in;  
(b) a dispensing outlet (2) through which the fluid product is dispensable from the dispenser;  
(c) a metering chamber (C) which is adapted to provide the metered volume of the fluid product for dispensing through the dispensing outlet by movement of the metering chamber between a contracted state and an expanded state, movement of the metering chamber from the contracted state to the expanded state placing the metering and storage chambers in fluid communication to enable the metering chamber to receive from the storage chamber an excess volume of the fluid product comprising the metered volume and a surplus volume;  
(d) a bleed arrangement (11', 31'; 39, 11a) adapted to bleed the surplus volume of the fluid product from the metering chamber; and  
(e) an actuating mechanism (26, 7) for actuating movement of the metering chamber between the expanded and contracted states;  
wherein:

- (f) the actuating mechanism has a manually-operable actuator member (26, 7) mounted on the dispenser for movement in a predetermined direction with respect to the dispenser; and
- (g) the actuating mechanism is adapted to cause a cycle of movement of the metering chamber which takes in its expanded and contracted states in response to movement of the actuator member in the predetermined direction.

**3 DEPENDENT CLAIMS 2-110**

Dependent claims 2-110 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT) for the following reasons:

- 3.1 The subject matter of claims 2-54, 56, 57, 63-71, 78-87, 93-106 is also already known from D1 and is therefore not new.
- 3.2 The features of claims 55, 58-62 is merely one of several straightforward possibilities from which the skilled person would select (see e.g. D3 fig. 15), in accordance with circumstances, without the exercise of inventive skill. The subject matter of claims 55, 58-62 is therefore not inventive.
- 3.3 The actuation mechanism of claims 72-77, 88-92 is described in document D2 as providing the same advantages as in the present application. The skilled person would therefore regard it as a normal design option to include this feature in the dispenser described in document D1 in order to operate the dispenser with ease. The subject matter of claims 72-77, 88-92 is therefore not inventive.
- 3.4 The features of claims 107-109 is merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill. The subject matter of claims 107-109 is therefore not inventive.
- 3.4 Claim 110 do not fulfill the requirements of Rule 6.2 (a) PCT and is therefore not

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING  
AUTHORITY (SEPARATE SHEET)**

---

International application No.

PCT/GB2005/000407

admissible.